

WHAT IS CLAIMED IS:

1. A method to effacing a zipper image, applicable to scan a document using a scanner with a stagger charge-coupled device, the method comprising:

5 determining whether the absolute value of a result of subtracting a n th pixel obtained by scan on a scan line on which the zipper image is produced by a $(n+1)$ th pixel obtained by scan on the scan line is smaller than a critical value; and

modifying the n th pixel obtained by scan as a n th pixel after being processed if the result is smaller than the critical value.

2. The method according to claim 1, wherein the n th pixel after being processed
10 equals to one half of a sum of the n th pixel and the $(n+1)$ th pixel obtained by scan.

3. The method according to claim 1, wherein the n th pixel after being processed equals to one half of the n th pixel obtained by scan plus one half of the $(n+1)$ th pixel obtained by scan.

4. The method according to claim 1, wherein the n th pixel obtained by scan is
15 not processed if the result is larger than the critical value.

5. The method according to claim 1, wherein the critical value is a predetermined value.

6. The method according to claim 1, wherein the critical value can be adjusted according to the modulation transfer function of the scanner with the stagger charge-
20 coupled device.